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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/692,649			Joachim Hossick-Schott	P-10579.00	8641
27581	7590	08/04/2006		EXAMINER	
MEDTRO	•		HA, NGUYEN T		
710 MEDTRONIC PARK MINNEAPOLIS, MN 55432-9924				ART UNIT	PAPER NUMBER
	,			2831	

DATE MAILED: 08/04/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	•					
	10/692,649	HOSSICK-SCHOTT ET AL.						
Office Action Summary	Examiner	Art Unit						
	Nguyen T. Ha	2831						
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with	the correspondence address						
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perior. - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC 1.136(a). In no event, however, may a rejud will apply and will expire SIX (6) MONT ute, cause the application to become ABA	ATION. ly be timely filed IS from the mailing date of this communication. NDONED (35 U.S.C. § 133).						
Status								
1) Responsive to communication(s) filed on 30	May 2006							
	nis action is non-final.							
3) Since this application is in condition for allow		rs, prosecution as to the merits is						
• • • • • • • • • • • • • • • • • • • •	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims		•						
4)⊠ Claim(s) <u>45-50 and 52-64</u> is/are pending in t	he application	•						
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)⊠ Claim(s) <u>45-50 and 55-60</u> is/are allowed.								
6) Claim(s) <u>52-54 and 64</u> is/are rejected.								
7) Claim(s) is/are objected to.								
8) Claim(s) are subject to restriction and	or election requirement.							
Application Papers		•						
9) The specification is objected to by the Examir	nor							
9) ☐ The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the corre		• •						
11) The oath or declaration is objected to by the B								
Priority under 35 U.S.C. § 119		. •						
12)☐ Acknowledgment is made of a claim for foreig	n priority under 35 U.S.C. §	19(a)-(d) or (f).						
a)□ All b)□ Some * c)□ None of:								
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bure								
* See the attached detailed Office action for a lis	st of the certified copies not re	eceived.						
Attachment(s)	,, C							
1) Notice of References Cited (PTO-892) - 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) ∐ Interview Su Paper No(s)/	nmary (PTO-413) Mail Date						
Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date		rmal Patent Application (PTO-152)						

DETAILED ACTION

Response to Amendment

1. The examiner acknowledges the applicant's submission of the amendment dated 5/30/2006. At this point, claims 1-14 and claims 27-44 are withdrawn, claims 15-27 are cancelled, claims 52-64 are added, claims 28-44 and 51 are withdrawn. Claims 45-50, 52-64 are pending in the instant application.

Claim Objections

2. Claims 61-63 are objected to because of the following informalities: The claims 61-63 are depending on claim 24, which is already cancelled.

Appropriate correction is required.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation

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under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

4. Claims 52-54 and 64 are rejected under 35 U.S.C. 103(a) as being unpatentable over Akami et al. (US 6,375,688) in view of O'Phelan et al. (US 6,709,946).

Regarding claim 52, Akami et al. disclose a capacitor apparatus (figures 1-4) comprising:

- a porous sintered valve metal anode member (31) having at least two
 cavities (32) formed therein;
- a conductive lead wire (20) coupled to the anode member;
- at least one cathode member (33) disposed in electrical communication with the anode member; and
- a housing means (37) for retaining the anode member and cathode member.

Akami et al. lack the cathode member includes one of a carbon material, stainless steel material, a carbide material, a titanium material and a ruthenium material.

O'Phelan et al. teach a cathode member include titanium (column 3, lines 34-36).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to use the cathode of O'Phelan et al, substituted into Akami

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capacitor in order to produce the high conductivity and high capacitance for the capacitor.

Regarding claim 53, Akami et al. disclose the anode member includes one of an aluminum material (column 7, line 49).

Regarding claim 54, Akami et al. disclose the at least two cavities comprises at least one surface feature on the anode member and the at least one surface feature comprises a ridge (figure 4).

Regarding claim 64, the teaching of O'Phelan et al. includes the cathode having a coat of at least on of titanium oxide (column 8, lines 49-51 and column 9, lines 1-7).

Allowable Subject Matter

5. Claims 45-50 and 55-60 are allowed.

The following is an examiner's statement of reasons for allowance:

With respect to claims 45-50, the prior art alone or in combination does not teach the limitation of a capacitor having the valve metal anode includes a cross-sectional density gradient and a peripheral portion of the valve metal anode is relatively less dense than a central portion of the valve metal anode.

With respect to claims 55-56, the prior art alone or in combination does not teach the limitation of a capacitor having the cathode member comprises an elongated cathode member and the elongated cathode member is at least partially inserted into one of the at least two cavities, and wherein the cathode member has a core

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surrounded by a high capacitance material and a separator layer surrounding the high capacitance material.

With respect to claims 57-60, the prior art alone or in combination does not teach the limitation of the capacitor having an anode member and the cathode member each have major surfaces and the major surface of the anode member is disposed substantially orthogonal to the major surface of the cathode member.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nguyen T. Ha whose telephone number is 571-272-1974. The examiner can normally be reached on Monday-Friday from 8:30AM to 6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dean Reichard can be reached on 571-272-2800 ext. 31. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for

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published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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PRIMARY EXAMINER

August 2, 2006